

ABSTRACT: *The following is the unchanged proposed abstract from the international publication.*

The invention relates to a method and device which are intended for remote control and communication using nuclear isomers. Several samples of nuclides that can have a metastable state are irradiated together and simultaneously with cascade gamma-rays emitted from a radioactive source or a particle accelerator. According to quantum mechanics, the gamma-rays produced are entangled, and said entanglement is transferred to the nuclear isomers. When the samples are separated and one of said samples, namely the master, is stimulated using a standard gamma- or X-ray irradiation method, the other samples, namely the slaves, are also deexcited. There is no known method for interference between the masters and slaves. Only the slave(s) can receive the signal instantly from the master through any medium and over any distance. The method and device are particularly suitable for communication and control applications.